

City of Carlsbad
Building Department

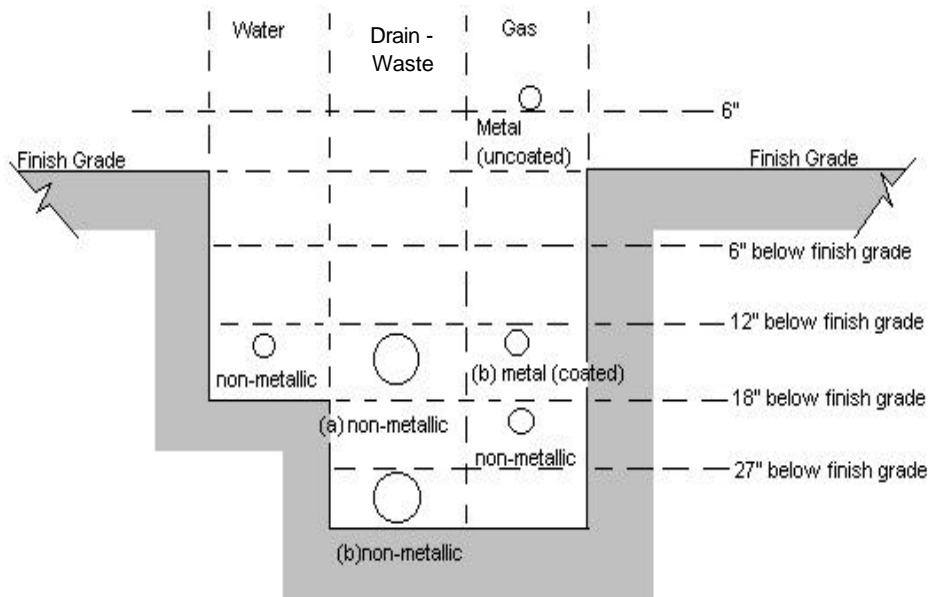
Underground Pipe & Conduit
Burial Depths



BURIAL DEPTHS FOR YARD PIPING

These burial depths apply outside of buildings within private property subject to the following provisions:

- These are not applicable to public utility piping.
- Pipes may be laid in the same trench without horizontal separation except as noted for water and sewer lines.
- These depths are not applicable in mobilehome parks.

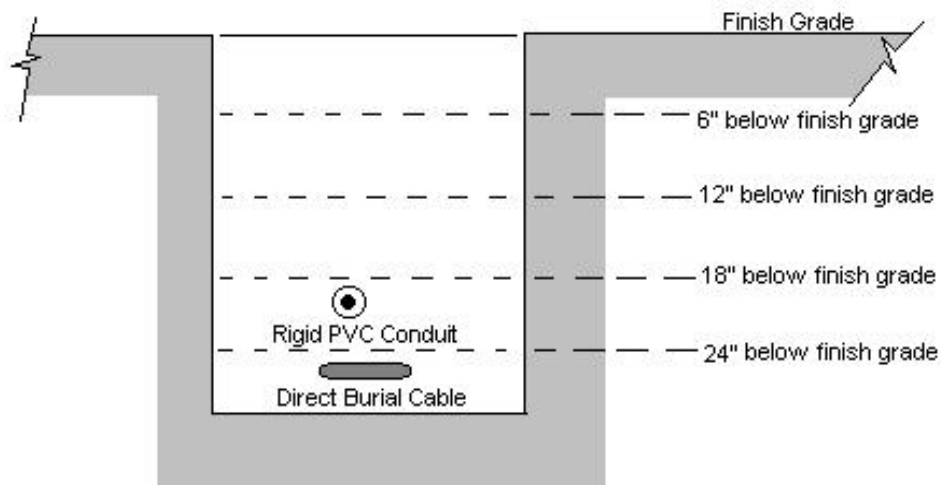


Water Piping	Drain - Waste Piping	Fuel Gas Piping
Metallic piping shall be a minimum of 12" below finish grade.	Metallic piping shall be a minimum of 12" below finish grade.	Metallic piping must be 6" minimum above finish grade or factory wrapped w/ protective coating
Non - Metallic piping shall be a minimum of 12 below finish grade	(a) 12" minimum below finish grade (b) For pipe not listed to be used inside buildings, the sewer must be 12" below the water piping. The water pipe shall be to one side on a solid shelf - total depth to the top of the sewer 27"	Non-metallic gas piping must be 18" minimum below finish grade. Note: riser to be metallic. Horizontal metallic portion of the riser shall extend 30" minimum before connecting to the plastic piping. Use of a factory transition fitting is required. All metal fittings must be primed and wrapped with minimum of 40 mils of approved pipe wrap tape. Number 18 yellow awg copper tracer wire shall be attached to non-metallic piping and shall terminate above grade at both ends. Gas

		terminate above grade at both ends. Gas lines may NOT be installed under any structures
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Burial Depths for Electrical Lines on Private Property

Rigid Non-metallic Conduit	18" Minimum 24" Under areas subject to vehicular traffic
Direct Burial Cable	24 " Minimum Note: A reduction to 12" deep is allowed for any wiring method for a 120 V, 20 Ampere or less rated circuit that is GFCI protected
Metallic Conduit	Not recommended except per San Diego ICBO Newsletter 345-346-348
Note: These depths may be reduced 6 " when minimum of 2" of concrete cover is placed in the conduit trench	



The above burial depths are not applicable for the following uses:

- Mobilehome Parks
- SDG&E Service Laterals

- Exterior concrete slabs or Underneath building slabs a minimum of 3 ½ " thick. (conduit may be installed directly underneath slabs)
- Locations where solid rock is encountered. Check with field inspector for possible solutions
- Vehicular traffic areas

Any trenching near or through septic systems must be reviewed by the County Health Department as well as the Building Department.